

Title (en)
VEHICLE SPEAKER SYSTEM

Title (de)
FAHRZEUGLAUTSPRECHERSYSTEM

Title (fr)
SYSTÈME DE HAUT-PARLEUR DE VÉHICULE

Publication
EP 3346724 B1 20240306 (EN)

Application
EP 17209729 A 20171221

Priority
JP 2017001112 A 20170106

Abstract (en)
[origin: EP3346724A1] A vehicle speaker system includes a speaker having a diaphragm that generates a sound pressure, a frame that supports the diaphragm vibratably, and a driving unit attached to the frame to drive the diaphragm. A position of the speaker relative to a partition separating a vehicle-cabin inner space and an engine-room inner space is determined so that the sound pressure generated by an action of the diaphragm passes through an opening in the partition. A shield member is provided with at least a part thereof being located between the speaker and an obstacle generation source located in the engine-room inner space to obstruct an operation of the speaker. An open part allowing a first space provided between the speaker and the shield member to communicate with the engine-room inner space is provided in such a direction as not to be directed toward the obstacle generation source.

IPC 8 full level
H04R 1/02 (2006.01); **B60R 11/02** (2006.01)

CPC (source: EP US)
B60R 11/0217 (2013.01 - EP US); **H04R 1/023** (2013.01 - EP US); **H04R 1/025** (2013.01 - US); **H04R 1/028** (2013.01 - EP US); **H04R 1/021** (2013.01 - EP US); **H04R 2499/13** (2013.01 - EP US)

Citation (examination)
• US 2005259841 A1 20051124 - CARON GERALD F [US], et al
• KR 20120014293 A 20120217 - HYUNDAI ROTEM CO [KR]
• US 2016227306 A1 20160804 - SHIOJIMA HIROYUKI [JP], et al
• US 2012219171 A1 20120830 - VELICAN ZELJKO [AU]

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3346724 A1 20180711; **EP 3346724 B1 20240306**; JP 2018111328 A 20180719; JP 6755627 B2 20200916; US 10358098 B2 20190723; US 2018194298 A1 20180712

DOCDB simple family (application)
EP 17209729 A 20171221; JP 2017001112 A 20170106; US 201715819095 A 20171121